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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTO	OR ATTORNEY DOCKET NO. CONFIRMATION NO
10/040,470	01/09/2002	Kaoru Matsumoto	2576
	590 05/24/2	004	EXAMINER
LORUSSO & 3137 Mt. Verno	n Avenue		TAMAI, KARL I
Alexandria, V	A 22305	=	ART UNIT PAPER NUMBER
•		*	2834
			DATE MAILED: 05/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N .	Applicant(s)					
	Offic Action Summary	10/040,470	MATSUMOTO, KA	ORU				
	Ome Action Summary	Examiner	Art Unit					
	The state of the s	Tamai IE Karl	2834	رسهم				
	The MAILING DATE of this c mmunicati n app Period f r Reply			ress				
=	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). earned patent term adjustment. See 37 CFR 1.704(b).							
i	Status		·					
	1) Responsive to communication(s) filed on <u>02 Apr</u>	ril 2004	*					
	2a) I his action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex	s except for joinial watt	ers, prosecution as to the n	nerits is				
		parte Quayle, 1935 C.D	. 11, 453 O.G. 213.					
	Disposition of Claims							
·	4) Claim(s) 4-22 is/are pending in the application.		•	•				
	4a) Of the above claim(s) 4-17 is/are withdrawn t	rom consideration	* *					
	5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·		** .				
	6)⊠ Claim(s) <u>18-22</u> is/are rejected.	* .						
ı	7) Claim(s) is/are objected to.			,				
	8) Claim(s) are subject to restriction and/or e	election requirement		•				
	() substitution and of	section requirement.						
	Application Papers			* * *				
	9) The specification is objected to by the Examiner.							
	10)☐ The drawing(s) filed on is/are: a)☐ accep	ted or b) objected to b	by the Examiner.	•)(•				
	Applicant may not request that any objection to the dra	awing(s) be held in abeyand	ce. See 37 CFR 1 85(a)					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
	11)☐ The oath or declaration is objected to by the Exar	niner. Note the attached	Office Action or form PTO-	1.121(u). 152				
Ę	Priority under 35 U.S.C. § 119			.102.				
			43.00					
	12)⊠ Acknowledgment is made of a claim for foreign pr a)⊠ All b)□ Some * c)□ None of:	iority under 35 U.S.C. §	119(a)-(d) or (f).					
		ave been received	<i>;</i>					
	- The priority documents have been received.							
	and a priority documents have been received in Application No.							
	— The stand dopies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	of the attached detailed office action for a list of	the certified copies not re	eceived.					
1.	144. a. b							
1	Attachment(s)			•				
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sur	mmary (PTO-413)					
3	Paper No(s)/Mail Date	5) L Notice of Info	Mail Dat mal Patent Application (PTO-152	2)				
U.S.	Patent and Trademark Office	6) Other:	·	· .				
PT	OL-326 (Rev. 1-04) Office Acti n	Summary	Part of Paper No./Mail Date 20	0040519				

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DETAILED ACTION

Specification

1. The new title "AXIAL FAN MOTOR INCLUDING A CASING OF LAMINATED METAL PLATES" has been entered into the file wrapper. The requirement of a new title is withdrawn.

Claim Objections

2. Claim 21 is objected to because of the following informalities: Claim 21 recites the limitation "said inner circular edge" and "said second metal plates". There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 18, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda et al. (Umeda)(US 5982064) and Thomas (US 5288203). Umeda teaches a heat sink 46 with a fan motor 38 having an inner stator 40 on a bearing holder 31 and blades 32 on the outer circumference of the cup shaped rotor 24. Umeda teaches every aspect of the invention except the casing being formed of a plurality of metal plates and second plates with unbroken circles. Thomas (US 5288203) teaches a fan motor for a heat sink with the heat sink having a plurality of

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metal plates rings (second plates with unbroken circles). It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Umeda with the plates of Thomas to effectively dissipate heat.

5. Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda et al. (Umeda)(US 5982064) and Thomas (US 5288203), in further view of Wang (US 6193205). Thomas teaches the baseplate for the motor 25 and the heat sink 24 being metal (col 6, line 45 teaches the equivalence of the baseplate 25 being metal or resin). Umeda and Thomas teach every aspect of the invention except the second metal plates being in face to face relationship. Wang teaches the second plates 20, 30 being in face to face relationship and having only an inner circular edge. It would have been obvious to a person of ordinary skill in the art at the time of the invention to construct the motor of Umeda and Thomas with the second plates of Wang to effectively dissipate heat.

Response to Arguments

6. Applicant's arguments with respect to claims 17-22 have been considered but are moot in view of the new grounds of rejection.

Conclusion

7. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl I.E. Tamai whose telephone number is (571) 272 - 2036. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (703) 872 - 9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER May 19, 2004

KARL TAMAI PRIMARY EXAMINER